

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1.-23. (Canceled)

1 24. (Currently amended) ~~The~~ An in-band-flat-group-delay type dielectric filter, ~~according to~~
~~claim 23 comprising:~~

a plurality of dielectric resonators,

a main circuit formed of series coupling capacitors, with which the dielectric resonators
are coupled to one another; and

an auxiliary circuit for coupling the main circuit to capacitors by bypass coupling,
wherein both deviations in group delay time and in amplitude between input/output
terminals fall within specified certain deviation values, respectively, at the same time at a center
frequency and within a specified frequency band around the center frequency,

PN
wherein the auxiliary circuit includes parallel bypass capacitors and series bypass
capacitors;

two of the series coupling capacitors connect between the adjacent dielectric resonators;
each one end of the parallel bypass capacitors is connected to a junction between the two
of the series coupling capacitors; and

the other ends of the adjacent parallel bypass capacitors are connected to be short
circuited or via at least one of the series bypass capacitors.

2 25. (Currently amended) ~~The~~ An in-band-flat-group-delay type dielectric filter ~~according to~~
~~claim 23, comprising:~~

a plurality of dielectric resonators,

a main circuit formed of series coupling capacitors, with which the dielectric resonators
are coupled to one another; and

an auxiliary circuit for coupling the main circuit to capacitors by bypass coupling,

wherein both deviations in group delay time and in amplitude between input/output terminals fall within specified certain deviation values, respectively, at the same time at a center frequency and within a specified frequency band around the center frequency,

wherein the auxiliary circuit includes parallel bypass capacitors and series bypass capacitors;

one of the series coupling capacitors connects between the adjacent dielectric resonators;
each one end of the parallel bypass capacitors is connected to a junction between the series coupling capacitors; and

the other ends of the adjacent parallel bypass capacitors are connected to be short circuited or via at least one of the series bypass capacitors.

3 26. (Previously presented) The in-band-flat-group-delay type dielectric filter according to claim 24, wherein at least one of the parallel bypass capacitors is opened.

PN 4 27. (Previously presented) The in-band-flat-group-delay type dielectric filter according to claim 24, wherein at least one of the series bypass capacitors is short circuited.

5 28. (Currently amended) The An in-band-flat-group-delay type dielectric filter according to claim 23, comprising:

a plurality of dielectric resonators,

a main circuit formed of series coupling capacitors, with which the dielectric resonators are coupled to one another; and

an auxiliary circuit for coupling the main circuit to capacitors by bypass coupling,

wherein both deviations in group delay time and in amplitude between input/output terminals fall within specified certain deviation values, respectively, at the same time at a center frequency and within a specified frequency band around the center frequency,

wherein frequency characteristics in group delay have a peak value at a lower edge of a passband in amplitude transfer characteristics and uniform-group-delay frequency characteristics within the passband; and

in a higher frequency band than an upper edge of the passband, the frequency characteristics in group delay frequency characteristics do not increase from a uniform group delay time within the passband but decrease.

⁶ 29. (Currently amended) ~~A linearized amplifier, including a~~ An in-band-flat-group-delay type dielectric filter according to claim 23, comprising:

a plurality of dielectric resonators,

a main circuit formed of series coupling capacitors, with which the dielectric resonators are coupled to one another; and

an auxiliary circuit for coupling the main circuit to capacitors by bypass coupling,

wherein both deviations in group delay time and in amplitude between input/output terminals fall within specified certain deviation values, respectively, at the same time at a center frequency and within a specified frequency band around the center frequency, and

wherein a group delay time in a distortion compensating circuit is regulated by the dielectric filter.

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⁷ 30. (Original) The linearized amplifier according to claim ⁶29, wherein the distortion compensating circuit is a feedforward-type distortion compensating circuit.

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⁸ 31. (Original) The linearized amplifier according to claim ⁶29, wherein a uniform-group-delay frequency band width in the dielectric filter is at least three times as wide as a bandwidth required for the linearized amplifier.

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⁹ 32. (Original) A linearized amplifier, including a dielectric filter according to claim ³26, wherein a group delay time in a distortion compensating circuit is regulated by the dielectric filter.

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¹⁰ 33. (Original) The linearized amplifier according to claim ⁹32, wherein the distortion compensating circuit is a feedforward-type distortion compensating circuit.

11 ~~34~~⁹ (Original) The linearized amplifier according to claim ~~32~~⁹, wherein a uniform-group-delay frequency band width in the in-band-flat-group-delay type dielectric filter is at least three times as wide as a bandwidth required for the linearized amplifier.

12 ~~35~~⁴ (Original) A linearized amplifier, including a dielectric filter according to claim ~~27~~⁴, wherein a group delay time in a distortion compensating circuit is regulated by the dielectric filter.

13 ~~36~~¹² (Original) The linearized amplifier according to claim ~~35~~¹², wherein the distortion compensating circuit is a feedforward-type distortion compensating circuit.

PN 14 ~~37~~¹² (Original) The linearized amplifier according to claim ~~35~~¹², wherein a uniform-group-delay frequency band width in the in-band-flat-group-delay type dielectric filter is at least three times as wide as a bandwidth required for the linearized amplifier.

15 ~~38~~⁵ (Original) A linearized amplifier, including a dielectric filter according to claim ~~28~~⁵, wherein a group delay time in a distortion compensating circuit is regulated by the dielectric filter.

16 ~~39~~¹⁵ (Original) The linearized amplifier according to claim ~~38~~¹⁵, wherein the distortion compensating circuit is a feedforward-type distortion compensating circuit.

17 ~~40~~¹⁵ (Original) The linearized amplifier according to claim ~~38~~¹⁵, wherein a uniform-group-delay frequency band width in the in-band-flat-group-delay type dielectric filter is at least three times as wide as a bandwidth required for the linearized amplifier.

18 ~~41~~² (New) The in-band-flat-group-delay type dielectric filter according to claim ~~25~~², wherein at least one of the parallel bypass capacitors is opened.

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19 ~~42~~. (New) A linearized amplifier, including a dielectric filter according to claim ~~41~~, wherein a group delay time in a distortion compensating circuit is regulated by the dielectric filter.

20 ~~43~~. (New) The linearized amplifier according to claim ~~42~~, wherein the distortion compensating circuit is a feedforward-type distortion compensating circuit.

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21 ~~44~~. (New) The linearized amplifier according to claim ~~42~~, wherein a uniform-group-delay frequency band width in the in-band-flat-group-delay type dielectric filter is at least three times as wide as a bandwidth required for the linearized amplifier.

PN 22 ~~45~~. (New) The in-band-flat-group-delay type dielectric filter according to claim ~~28~~, wherein at least one of the series bypass capacitors is short circuited.

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23 ~~46~~. (New) A linearized amplifier, including a dielectric filter according to claim ~~45~~, wherein a group delay time in a distortion compensating circuit is regulated by the dielectric filter.

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24 ~~47~~. (New) The linearized amplifier according to claim ~~46~~, wherein the distortion compensating circuit is a feedforward-type distortion compensating circuit.

23
25 ~~48~~. (New) The linearized amplifier according to claim ~~46~~, wherein a uniform-group-delay frequency band width in the in-band-flat-group-delay type dielectric filter is at least three times as wide as a bandwidth required for the linearized amplifier.